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(21) International Application Number: PCT/US99/06644 (22) International Filing Date: 26 March 1999 (26.03.99) (30) Priority Data: 60/079,759 27 March 1998 (27.03.98) US 60/095,153 3 August 1998 (03.08.98) US (71) Applicant (for all designated States except US): FOX CHASE CANCER CENTER [US/US]; 7701 Burholme Avenue, Philadelphia, PA 19111 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): KRUH, Gary [US/US]; 241 South 6th Street #809, Philadelphia, PA 19106 (US). LEE, Kun [KR/US]; 21 Barrington Drive, Cranbury, NJ 08512 (US). BELINSKY, Martin [US/US]; 625 Parmentier Road, Warminster, PA 18974 (US). BAIN, Lisa [US/US]; 284 Penny Lane, Townville, SC 29689 (US). (74) Agents: RIGAUT, Kathleen, D. et al.; Dann, Dorfman, Herrell and Skillman, Suite 720, 1601 Market Street, Philadelphia, PA 19103 (US).		(81) Designated States: AU, CA, JP, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i>	
(54) Title: MPR-RELATED ABC TRANSPORTER ENCODING NUCLEIC ACIDS AND METHODS OF USE THEREOF			
(57) Abstract Novel human MOAT genes and their encoded proteins are provided herein. The MRP-related ABC transporters encoded by the disclosed nucleic acid sequences play a pivotal role in the efflux of pharmacologically beneficial reagents from tumor cells. MOAT genes and their encoded proteins provide valuable therapeutic targets for the design of anti-cancer agents which inhibit the aberrant growth of malignant cells.			